

INTERNATIONAL SEARCH REPORT

International application No.
PCT/US94/10308

A. CLASSIFICATION OF SUBJECT MATTER

IPC(6) :Please See Extra Sheet.
US CL :Please See Extra Sheet.

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 530/387.3, 388.25; 536/23.53; 435/7.1, 70.21, 172.2, 240.2, 240.27, 320.1; 424/133.1, 134.1, 145.1

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

APS, CAS ONLINE, BIOSIS, MEDLINE, SWISSPROT, GENESEQ 3

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO, A, 90/07861 (QUEEN ET AL.) 26 JULY 1990, SEE ENTIRE DOCUMENT.	1-29
Y	US, A, 5,041,381 (ABRAMS ET AL.) 20 AUGUST 1991, SEE ENTIRE DOCUMENT.	1-38
X —	JP, A, 91-187,395 (KANEKO ET AL.) 15 AUGUST 1991, SEE ENTIRE DOCUMENT.	32, 33, 36-38
Y		----- 1-31, 34, 35
X —	WO, A, 91/09059 (RAMANATHAN ET AL.) 27 JUNE 1991, SEE ENTIRE DOCUMENT.	32 -----
Y		1-31, 33-38

<input checked="" type="checkbox"/>	Further documents are listed in the continuation of Box C.	<input type="checkbox"/>	See patent family annex.
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Special categories of cited documents:	
"A" document defining the general state of the art which is not considered to be of particular relevance	"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
"B" earlier document published on or after the international filing date	"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
"L" document which may throw doubt on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)	"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
"D" document referring to an oral disclosure, use, exhibition or other means	"Z" document member of the same patent family
"P" document published prior to the international filing date but later than the priority date claimed	

Date of the actual completion of the international search	Date of mailing of the international search report
09 DECEMBER 1994	09 JAN 1995

Name and mailing address of the ISA/US Commissioner of Patents and Trademarks Box PCT Washington, D.C. 20231 Facsimile No. (703) 305-3230	Authorized officer PAULA HUTZELL <i>P. Hutzell</i> Telephone No. (703) 308-0196
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Form PCT/ISA/210 (second sheet)(July 1992)*

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JOURNAL OF IMMUNOLOGICAL METHODS, VOLUME 117, ISSUED 1989, CHRETIEN ET AL., "DEVELOPMENT OF POLYCLONAL AND MONOCLONAL ANTIBODIES FOR IMMUNOASSAY AND NEUTRALIZATION OF HUMAN INTERLEUKIN-4", PAGES 67-81, SEE ENTIRE DOCUMENT.	1-38
Y	HYBRIDOMA, VOLUME 12, NUMBER 4, ISSUED AUGUST 1993, ABE ET AL., "NOVEL IMMUNIZATION PROTOCOL AND ELISA SCREENING METHODS USED TO OBTAIN AND CHARACTERIZE MONOCLONAL ANTIBODIES SPECIFIC FOR HUMAN LIGHT CHAIN VARIABLE-REGION SUBGROUPS", PAGES 475-483, SEE ENTIRE DOCUMENT.	31, 32

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IPC (6):

C07K 16/24, 16/46, 17/02; C07H 15/12; C01N 33/53; C12P 21/08, C12N 5/10, 5/20, 15/13; A61K 39/395

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US CL :

530/387.3, 388.25, 391.1; 536/23.53; 435/7.1, 70.21, 172.2, 240.2, 240.27, 320.1; 424/133.1, 134.1, 145.1